

**ARCHITECTURAL SYSTEM USING A RETRACTABLE STRUT**  
**ALIGNED IN A BASE PLANE AND AN EXTENSION STRUT**  
**PROTRUDING ACUTELY FROM THE BASE PLANE**

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**Abstract of the Disclosure**

In an architectural system, a triangular base engages an extension. The base includes three complete struts substantially aligned along their respective axes. These axes each intersect each other to form a triangle contained in a base plane. The triangle's vertices each correspond to a respective nucleus of nodes called A, B and C. This forms three base angles. The first angle has a positive value about equal to  $[j \times 20.9^\circ + k \times 31.7^\circ + m \times 36^\circ + n \times 37.4^\circ]$ , where j, k, m and n are each an integer less than three. The second angle also has a positive value about equal to  $[q \times 20.9^\circ + r \times 31.7^\circ + s \times 36^\circ + t \times 37.4^\circ]$ , where q, r, s and t are each an integer less than three. The third node engages the second and third complete struts and must be large enough to maintain the third base angle at a positive value less than  $60^\circ$ .

At least one of the base triangle struts comprises two or more rigid pieces able to move apart so as to produce a strut elongation. The extension comprises a fourth complete strut substantially aligned along a fourth axis forming a substantially acute angle  $> 3^\circ$  with the base plane.

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